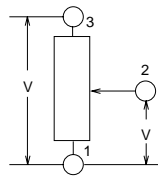


Caution

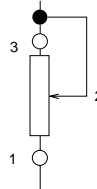
[Recommended Circuit Configuration]

When using variable resistors, it is recommended that you use them as voltage adjusting means, as shown in Fig. A. If the variable resistor is used as a current adjusting means as in Fig. B, it may be influenced by the contact resistance between the resistor body and the slide, depending on the set circuit. Conducting a test under actual operating conditions is highly recommended.

A. Voltage divider type

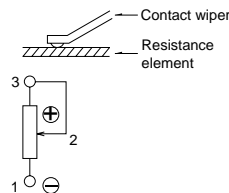


B. Current controller type



[Terminal Connections]

In applications where a direct current is allowed to flow through the potentiometer's sliding arm, there could be a problem of anodic oxidation due to an unusual increase in resistance value. In this case, it is recommended that you connect the negative line to the resistance element and the positive line to the sliding arm.



[Direct Voltage]

When direct voltage is flown through this part, terminal to terminal insulation may deteriorate depending on the use environment. This is due to a migration phenomenon. Contact us if you are planning to use this part under direct voltage.

[Impedance on the Output Side]

There is a possibility that might be affected by contact resistance of resistive element and wiper in case of low impedance of output side in voltage regulation circuit. For this reason, we require that you adjust to impedance of output side more than 100times of total resistance.

[Reside Resistance]

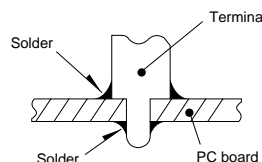
Although electric poles of resistors are generally formed by silver printing, we provide carbon coating over the silver poles to enhance reliability against sulfurization. Contact us if you wish to use the part in a low residual resistance state.

[Dew Condensation]

Avoid using the potentiometer where dew or water drops might occur on the surface of the resistor, etc. Deterioration of insulation or shorting may occur.

[Soldering]

Avoid employing wiring designs and soldering methods in which molten solder flows over the upper surface of PC board, as illustrated in the schematic drawing. This can cause occurrences of imperfect contacts.



Caution

[Stress Being Applied to the Terminals]

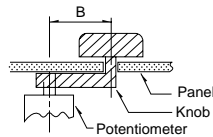
Always pay special attention not to apply excessive stress when handling the terminals. Also, be sure to design appropriate soldering conditions.

[Lever Length]

Design the height from the surface of the board up to the top of the knob as short as possible. The longer mounting height will result in worsening of the sliding feel. Verify the performance under actual operational conditions.

[Driving Lever]

Avoid using the lever in such a way that the point of application is far away from the center of the lever. The longer the length indicated by "B" becomes, the worse a sliding feel gets. Verify the performance under actual operational conditions.



[Chassis Mounting]

The use of a nut to fasten this part may lead to excessive tightening and can deteriorate the rotary contact performance, or strip the threads. Handle with care when tightening the nut.

The above operation notes are quoted from the "Precaution and Guideline of Potentiometer for Electrical Devices", a technical report issued by the Japan Electronics and Information Technology Industries Association EIAJ RCR-2191A (in March 2002).

For details, refer to the original technical report.

Rotary
Potentiometers

Slide
Potentiometers

Multi Control
Devices

Sensors

General-use

Mixer